



CHARLES M. NOBLE APPOINTED STATE HIGHWAY ENGINEER

Former Pennsylvania Turnpike Engineer and Naval Commander Will Assume Office on February 1st

State Highway Commissioner Spencer Miller, Jr., has announced the appointment of Commander Charles M. Noble (CEC) U.S.N.R., of Leonia, Bergen County, as State Highway Engineer. He will assume his duties on Feb. 1st. The Commissioner's statement on his selection was as follows:

"Commander Noble who was in the Navy during World War I, has been serving with the Sea Bees in Alaska and China during World II, and has been awarded the Legion of Merit and the Bronze Star for his outstanding work during this war. Previously he had been Highway Engineer on the construction of the Pentagon Building in Washington. For two years, 1923-25, he was Resident Engineer of the New Jersey State Highway Department.



COMMANDER NOBLE

"From 1919 to 1923 he did engineering work on harbors and highways in Florida, Alabama and Kentucky, and he was with the Port of New York Authority, working on general and highway features of the George Washington Bridge, Outerbridge Crossing, Goethals Bridge, Bayonne Bridge and Lincoln Tunnel from 1925 to 1938.

"Commander Noble from 1938 to 1941 served as Special Highway Engineer of the Pennsylvania Turnpike Commission, and had overall supervision of the design of all special highway features of this pioneer express highway of America.

"He is a Registered Professional Engineer in New Jersey, New York and Pennsylvania and is a recognized authority on modern highway design. He has written a number of important papers on modern express highways, and

Season's Greetings

The cheerful Christmas Season always instills in our hearts an added measure of joy and gladness. This Christmas, with the fighting war won and a large percentage of our boys having rejoined us after doing their part toward making this world of ours a safer place in which to live, we have a very special reason for happiness.

May we go forward with a high resolve to design, construct and maintain our New Jersey highways in a manner that is in keeping with our reputation, of which we are so justly proud.

May God in his infinite wisdom guide us in paths of true peace on earth and good will among men.

It is an esteemed privilege to extend to each and every one of our Highway Department family our most sincere greetings and good wishes for Christmas and the New Year.

A Lee Grover
Secretary

Christmas Greetings

For the first time since joining the forces of the State Highway Department I find myself in a position where I can say Merry Christmas to all of you without the din of war making a mockery of the greeting. I wish that I could greet you all personally, especially those men who have so recently rejoined the department after serving in the armed forces of their country. Since this is impossible, however, I am glad to take this means of saying to each of you, Merry Christmas and Happy New Year.

Eugene V. Connert,
Administrative Assistant

safety in highway design which have been awarded the Arthur Wellington Prize by the American Society of Civil Engineers and the Clemens Herschel Prize by the Boston Society of Civil Engineers. He has lectured at both Harvard and Yale Universities on Highway Design."

Admiral Ben Moreell recommended Commander Noble to Commissioner Miller as an outstanding officer and as being especially well qualified for the position of State Highway Engineer. Such prominent professional men as O. H. Ammann, former Chief Engineer and now Consultant to the Port Authority of New York and Thomas J. Evans, Chairman of the Pennsylvania Turnpike Commission have also approved Commander Noble in the highest possible terms.

For the past two years Commissioner Miller has made a careful survey of the qualifications of more than 50 different highway engineers now in the Armed Forces, as well as in civilian life. The selection of Commander Noble has come as a result of the most careful appraisal of the qualifications of all of these men.

This important appointment has received the full endorsement of Governor Walter E. Edge, who had informed Commissioner Miller months ago that he did not want it made on a political basis, but rather for professional competence and merit.

Library Incorporates Book Purchase Plan

In order to improve the service which the State Highway Library is rendering to employees in all divisions of the department, a plan has been approved for determining what technical books should be added from time to time.

The plan as outlined will work in this manner. Any employee who feels that there is a definite need for a particular text book is invited to fill out a request card stating the name of the book, in what manner it will be useful, and the estimated number of persons who would refer to it as a reference. Periodically these cards will be evaluated and from time to time new books will be purchased. All additions to the library will be based upon the anticipated use of each volume.

The reference library is located in Room 230 in the State House Annex. Request cards may be obtained from Ernest J. Birch, who acts as librarian, or they will be sent to you upon application. Before requesting any volume be sure to consult the list of books and periodicals now available. These lists are distributed from time to time, or can be obtained at the library.

Christmas 1945

The age-old Christmas message of "Peace to men of good will" will have a deeper significance for us all this year. War has ended throughout the world with the final victory of the United Nations over Germany and Japan. The shambles which were once the leading cities in these two nations are mute witnesses to the Biblical truth "they that take the sword shall perish with the sword." Desolation, demoralization and starvation which have followed in the wake of this mightiest of struggles are the end results of total war; they offer those "hard lessons" which should deter another generation of dictators from a mad adventure of world domination by fire and the sword.

But if the Global war is over, local armed conflict has not ceased. Civil war in China, uprisings in Java, Sumatra and Palestine are grim reminders that peace does not follow automatically the cessation of war. Peace must be won just as truly as war is won. It cannot be won by arms or might of the few but by the mind and heart of the many. Peace is the by-product of justice, of fair play, of a decent respect for the opinion of others. Above all, it is the product of good will among men.

When good will is present as an active, creative force among men, there is the prospect of peace no matter what the level of civilization or the nature of the institution by which men live. Where good will is absent, there the hope of lasting peace is dim indeed in spite of the institutions which have been created to further international relations.

As we celebrate our first war-free Christmas in America in four years, let us make the Christmas Message of "Peace to Men of Good Will" the rule of our lives at home as well as abroad.

We can each one of us be a peacemaker wherever we are; whatever we are doing. Let each one of us seek to win the victory of peace with the same devotion that we have won the victory of war.

To each member of the State Highway Department then may I wish a very Merry Christmas and a Happy New Year—and Peace to men of good will.

Spencer Miller, Jr.
State Highway Commissioner.

HIGHWAY USERS' SURVEY TO SHOW DRIVING NEEDS OF MOTORISTS

Scientific Data Being Compiled for Future Highways in Metropolitan Area

A highway serves the motoring public best when it runs just where the greatest number of motorists wish it would. This desire for convenient travel is, of course, based upon driving habits. The man who drives to the seashore on weekends goes by a certain route because it is the most direct and gets him there with a minimum delay. The same applies to the fellow driving to work or visiting relatives in a neighboring town.

Each of us has certain places to which we drive most frequently, or would at least, if adequate highway facilities were provided. When this tendency is considered on the basis of several hundred thousand motorists concentrated within a small area, as in the case of metropolitan New Jersey, it becomes imperative that a critical analysis of the situation be made.

GREETINGS

It is with pride that I extend my best wishes for Christmas and the coming year to an organization confidently poised to accomplish the greatest highway development program in the history of New Jersey.

C. F. Bedwell
Acting State Highway Engineer

Realizing the importance of gathering such information at the earliest possible date, and at the request of the Public Roads Administration, Commissioner Miller obtained the approval of Governor Edge to go ahead with such a survey. This green light was flashed last Spring and since that time 14,000 homes have been visited and the driving habits of some 60,000 people, living between Paterson and Linden and the Hackensack meadows and the Orange Mountains, have been tabulated. In addition to this, more than 150,000 motor vehicles have been stopped on the road and their origin and destination determined.

To quote from the instructions handed to each interviewer, "The purpose of this survey is to collect and assimilate information that will enable us to set up a sound and economical program for the future development of streets, roads and highways in the Newark Metropolitan Area."

With this in mind, specially picked interviewers set forth to gather this vital information. Besides the group which made the home survey (every 30th house), another group manned 62 control stations set up on roads leading into the Newark area. These stations were manned for 16 hours a day, from 6:00 a. m. to 10:00 p. m., by two shifts. In some instances the stations remained on duty

Record Gathering Attends Dinner Of Ten Year Club

Beckner Named President;
Many Veteran Employees
Honored

Three hundred members of the Ten Year Club crowded into Fowlers Inn near Trenton in celebration of the 15th Annual Dinner of that organization on the evening of November 19. Despite the crowded conditions, it was a typical Ten-Year Dinner, with members gathering from all sections of the State to enjoy a well prepared evening.

As in former years, the highlight of the evening was the honoring of 20 and 25-year members who had completed that many years with the Department. The 20-year pins were awarded to 42 members by C. F. Bedwell, Acting State Highway Engineer, and himself the recipient of a 25-year pin.

To Commissioner Spencer Miller, Jr., fell the honor of presenting pins to the 28 members who had completed a quarter of a century of employment. He also stepped into the roll of principal speaker a little later, outlining New Jersey's new Parkway and Freeway program and paying tribute to those in attendance as the men upon whose shoulders would fall the responsibility of putting into execution this vast program of post-war highway construction.

Elect New Officers

As a result of the balloting the following men will be at the helm of the Ten Year Club for the next year: President, W. Eugene Beckner; 1st V. P., Harold Jamison; 2nd V. P., Edwin A. Iretson; 3rd V. P., Arthur Hancock; Secretary, Edward H. Drake; Assistant Secretary, Charles J. Engenach; Financial Secretary, Arthur J. Ryan; Treasurer, Clyde W. Case.

Following the installation of new officers, president-elect Beckner made an impressive address in which he said that he had not sought this position but that he considered it an honor and would do all within his power to serve the club well. He further made a plea for the cooperation of each member.

Evidence of the Club's continued growth was shown by the fact that 46 new employees were accepted for membership. This brings the total membership of the organization to a new high of 846. Those who joined the club on this occasion were:

Rizziero Cintia, William G. Koebel, Frank Cleary, Andrew C. Havran, Paul Pettio, Joseph L. Smith, Lawrence D. Angeline, Charles Berz, Michael Botti, Angelo Calio, Arthur B. Carey, Bert Cottrell, Frank Di Biasi, J. Warren Dowling, Harry A. Dreyer, John Fink, Rocco Frontero, John Geagheon, George Gerber, Joseph Gondolfo, Jr., Joseph W. Grasso.

Also David Hotchkiss, William H. Jackle, Fred A. Moetz, Eugene F. Murphy, Robert H. Myers, Howard C. Opdyke, William L. Pinkerton, Theodore Russell, Samuel Shebell, Sam F. Sica, Benjamin Spero, Alfred Taylor, Joseph S. Vizzini, Herbert B. Wood, Dominick Yanniello, John R. Young Sr., John J. Barrett, William A. Carnival, Michael Hoffman, J. A. Whitehead Jr., William Boyle Jr., Oliver I. Doll, Thomas J. Downs, Lewis H. Lake, Joseph E. Tallon.

Season's Greetings

Standing as we do on the threshold of a new era of peace and prosperity, it is possible for the first time in many years to extend Christmas Greetings without the reservations entailed by war. I am therefore pleased to extend to my colleagues throughout the Highway Department my sincerest wishes for a Merry Christmas and a Happy New Year.

Edward W. Kilpatrick
Asst. State Highway Engineer

(Continued on Page 4)

THE HIGHWAY

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MERRY CHRISTMAS

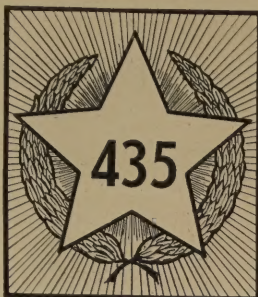
There are perhaps a thousand and one topics on which to write a Christmas editorial. Regardless of the approach, each would wind up by wishing each of you the Season's Greetings. So, without any preliminaries and without any reservations, here goes:

*Merry Christmas
and a
Happy New Year*

from:

Carman Davis, Fred Claus, Elmer Meyer, Claire Laczoni, Mabel Beans, Norman Schaller, John Kilpatrick, Arthur Lichtenberg, Gene Beckner, Edward Drake, Arthur Egan, James O'Rourke and John Christiano.

Highway Honor Roll



To those Highwaymen who are still in the service we send our greetings and the hope that you will be with us in the near future.

LABORATORY LINES

Norm Schaller

Season's Greetings to all Laboratory employees.

Wishing you all

Best of Health
Best of Luck
Best of Everything

Fred H. Baumann

We are sorry to report that Peg Beatty is confined at home with the "Flu." We wish her a speedy recovery.

Helen Scrivener, Laboratory Ass't. is honeymooning. She became the bride of Donald Lansing, U. S. N. on Saturday, Dec. 1.

A recent letter from R. A. Harris discloses that his oldest son is homeward bound from Linz, Austria.

A check-up on the whereabouts of the sons of Laboratory men who are in the service shows the following: Roy—son of Fred H. Baumann—Germany; Wendell—son of R. A. Sherman—Italy; Ed—son of Ed Pollock, Jr.—Pacific Area; Jack—son of J. A. Marren—Kualalein, S. Pacific. A glance at the map shows that these boys are really spread around the world.

Our sympathies are extended to Frank Schroeder upon the loss of his nephew, Joseph Schroeder, who was recently killed in an automobile accident.

Capt. Joe Reed's mail still comes from Boca Raton, Florida, where he is in charge of the processing base for returning air men. We look forward to the day when we can address his mail to his home in Bordentown.

Merry Christmas and a Happy New Year.

PLANNING SURVEY

The reason why the last few issues of the Highway have contained no news about the Planning Bureau has not been for want of news. On the contrary, events have moved so fast and the Origin and Destination Survey kept everybody so busy that no time was left for the recording of them. Now the tension is eased, because the field work of the survey has been successfully completed and we can enjoy our Christmas in peace of mind.

While we have had to enter the last few Christmas seasons with apprehension, this time we can look forward with greater confidence in the future. The war is over, and Commissioner Miller is outlining an extensive highway program for the coming years. I am sure, therefore, that my wish to everybody in the Planning Bureau will come true and it is: a Merry Christmas and a Happy New Year to all of you.

SIGVALD JOHANNESSON
Chief, Highway
Planning Bureau

SERVES FOR 25 YEARS



Mr. C. F. Bedwell, for twenty-five years the Construction Engineer of the State Highway Department, and for the last three years Acting State Highway Engineer is here receiving his service award pin from Commissioner Miller. Among others in this picture are: Club Financial Secretary Arthur Egan, 1st Vice President-elect Harold Jamison and Secretary Edward Drake.

BEST WISHES



President-elect W. Eugene Beckner of the Ten Year Club receiving the congratulations of Commissioner Miller following the announcement of the results of balloting.

BRIDGE BRIEFS

A. J. LICHTENBERG

In expressing greetings for this Holiday Season, I know that I am voicing the grateful sentiments of all for the happy turn of events of the past year. The anxiety and dejection of a year ago is replaced by gladness and confidence in a peace which we pray may become permanent. We look forward to the reunion of our entire organization at an early date for the extensive task of post-war bridge construction.

MORRIS GOODKIND
Bridge Engineer

New Jersey's bridge work was featured in two pages of text and photographs in the November issue of "Constructioneer." The Constructioneer, a magazine for the contracting and public works industry, made its bow with the November issue. Bridge Engineer Morris Goodkind and Commissioner Spencer Miller, Jr., are shown at the site of caisson operations for the Route 25A, Passaic River Bridge, between Newark and Harrison, along with other photographs.

The Bridge Division wishes to welcome a new employee, Loren P. Shortz, who started employment in December as a Junior Bridge Designer. Mr. Shortz is a graduate of Penn State with a B. S. in Civil Engineering, and subsequently majored in structures at Cornell graduate school. He comes to us from the Pennsylvania Highway Department.

Briefs: Patrick McCullough returned from leave and assigned to the Route 25, Section 2D, Camden Circle work. . . . Harry Lefferson, a recent week-end in a log cabin tucked away in the Stokes forest. . . . Bill Umberger and Fred Baumann, Laboratory Chief, renewing acquaintances and talking over boyhood associations. . . . Stae Kanyuh joyous over the return of her boy, Richard, from service in Japan. . . . Arthur Stetser assigned to the four bridges on Route 28, Section 24B, near Whitehouse.

Second Lt.: "I've been trying to see you all week. When may I have an appointment?"

Colonel: "Make a date with my secretary."

Second Lt.: "I did, sir, and we sure had a lot of fun, but I still want to see you."

Commander W. F. Hunter looking well and relaxing after his recent hospitalization. . . . Sven Hedin emerged from his first Bridge Division Club executive committee meeting with plans for a gala mid-winter dinner in Newark. Plans are maturing. . . . Marcel Ludasy, an early cold casualty. . . . Charles Fox, a new addition to the early birds—the group of 8:30 arrivals each morning.

ELECTRICAL FLASHES

John Kilpatrick

We are happy, this Christmas, to be able to greet so many who have not been with us for several Christmas seasons. Their presence brings very near to us the meaning of Victory. To all of the members of the Electrical Division, those who have fought loyally abroad, and those who have worked with equal loyalty at home, I extend sincere wishes for a Merry Christmas. We will work together for a Happy and Prosperous New Year.

James L. Hays

EMIC Jerry Iannaccone of Paterson has been discharged from the Navy after 3 years, 2 months service and will be back to work January 2nd as Bridge Operator, Grade II at the Route 6 Hackensack River Bridge, Little Ferry.

CEM Henry K. Johnson of Spring Lake has been discharged from the Navy after 2 years' service and resumed his duties as Electrical Foreman.

Sgt. William J. Kerwin of Ruthersford has been discharged from the Army after 3 years, 3 months service and is back to work as Bridge Attendant, Grade II on the Route 3, Hackensack River Bridge, Secaucus.

CCM Edwin "Tex" Ranson of Belmar has been discharged from the Navy after 2 years, 2 months service and has resumed his duties as Electrical Mechanic, Grade I.

Quartermaster Armin H. Schleter of Trenton has been discharged from the Merchant Marine and is back to work as Electrical Mechanic, Grade II.

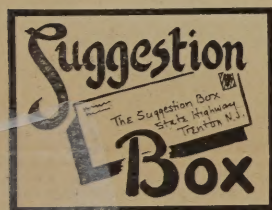
Sgt. John Krol of Trenton has been discharged from the Army after 3 years, 5 months service and will be back to work January 2, as Electrical Mechanic, Grade II.

John J. Connell of Jersey City, Assistant Chief Bridge Operator on the Route 10 Wippenn Bridge died on November 16 after a long illness. Mr. Connell had a record of 15 years service with the Highway Department and 14 years prior service at the Wippenn Bridge under Hudson County Road Dept. We expend sincerest sympathies to his survivors.

Albert V. Johnson of Keyport, Bridge Attendant, Grade II at the Route 36, Shrewsbury River Bridge, Highlands, died suddenly on December 4, from a heart attack while off duty.

James L. "Major" Hays has left for the West Coast on vacation. During his absence the Electrical Division will be under the guidance of Dorland (Don) Henderson.

Miriam K. Husid, File Clerk, has left our employ due to the return from Army Service of Anthony Russo. We were sorry to see you leave, Mimi, but equally glad to welcome back a returning veteran.



MORE THAN ANYTHING ELSE the following table indicates that Departmental employees possess individual initiative and ingenuity, and that they are taking full advantage of the opportunity for intelligent self expression. They are incidentally gaining recognition for top quality ideas. The table covers a 33 month period and totals 207 suggestions.

Origin of Suggestions By Divisions

Survey and Plans	68
Maintenance	49
Electrical	32
Bridge	20
Administration	10
Construction	8
Equipment	7
Laboratory	5
Projects	4
Real Estate	2
Miscellaneous	2

MUCH CREDIT IS DUE those individuals and groups who have aided in processing and evaluating these 207 suggestions. They include members of the official committee, Departmental executives and engineers and others both within and without the State Service. For this continuing service we wish to thank the committee and all who have contributed time and expert advice. A partial list of individuals and organizations follows: Commissioner Spencer Miller, Jr., E. V. Connett, C. F. Bedwell, H. W. Giffin, Morris Goodkind, A. Lee Grover, L. C. Petersen, H. D. Robbins, C. A. Burn, Alex W. Muir, F. D. Woodruff, Cyril Wimpenny, F. L. Gerard, J. J. Newmark, Earl Storer, Robert G. Blanchard, Dept. of Conservation and Development, T. W. Emmons, James L. Hays, F. H. Baumann, R. W. Green, R. W. Wildblood, Chas. I. Levine, E. E. Reed, T. E. Osborn, Al Ely, J. Evans, Frank Snedaker, E. F. Daniels of Motor Vehicle Dept., Port of New York Authority.

THE CONTINUED SUCCESS of the suggestion plan depends on your submitting suggestion ideas that can be used. So, be on the alert and write down every idea that you believe has merit. AND SEND THEM IN.

Your M. C. presents— THE LADIES... Bless Them

Were your M.C.s another Drew Pierson, this column would probably begin with predictions for our girls for the coming year. There are those whose husbands and fiancées have returned from the various theaters of war who are anticipating leaving the Department to assume the duties of matrimony and raising families. To them we wish continued and increasing happiness.

Our first two resignations are those of MINNIE POLLAK, and we sincerely hope that in the years to come they not forget but return to visit us from time to time.

The sender of those many gifts to BERNADETTE JOHNSON has returned to present all future ones in person. On the morning of his phone call, we understand there was quite a bit of excitement and confusion created when Henry Weber, of the Projects Division, crossed wires with "Bernie's" fiancée. In view of the occasion, however, all was happily forgiven.

Also among those to return home are STAE KANYUH's son and EDITH TOTH's brother.

After spending two weeks in the Mercer Hospital with Lobar pneumonia, MARY HARRIS is now reported home and well on the way to recovery.

The New Year will see EILEEN LOGAN's return to her desk after a month's leave.

THERESA RYAN gratefully acknowledges the expressions of sympathy, the flowers and use of cars, which her Highway friends extended in her recent bereavement.

If we may take leave from our usual policy of restricting our column to the ladies (Bless Them!), it is only fitting and right during the holiday season to say to all of our boys who have returned to the Department "a very sincere welcome home."

To you all, the season's greetings and every good wish for a happy New Year.

Bye now—

PROJECTS PARAGRAPHS

E. L. MEYER

As head of the Projects Division I am glad to welcome home those who have already returned from the Armed Forces. I appreciate the loyalty and support of those who have carried the extra burden due to a shortage of personnel because of the war. To all, at home and in distant places I wish a Christmas and New Year of Peace and Happiness.

EDWARD E. REED
Supervisor of State
Aid Projects

Captain John W. Thomas is now home on terminal leave. He stopped in the office a few days after arriving in the States and we were sure glad to see him. John was about the first to go into the service and has been away from the office more than five years. He was offered a Majority if he would stay in Europe another six months, but he decided he would rather come home and get married. The ceremony is supposed to take place before Christmas. About the first of the year John is returning to an Army hospital to have an injured finger operated on. We wish him success in both ventures.

We are sorry to report that Inspector Albert Sofield, Sr., of Seward, has been seriously ill with a heart condition for several weeks. However, he is now improving and recently was able to sit up in bed and write us a letter. We wish him a rapid and thorough recovery.

Sam Hann is expected home by December 15th and discharged from the Navy by the first of the year.

Guido Forster is also expecting to be back in "civies" by December 15th.

"Ernie" Topping is still in active service with the Navy but is living at his home in Bergen County. He, too, expects to be released soon.

Administration Division

Arthur Egan

To all who read this column, And those who skip it, too, The best of Christmas wishes To you and YOU AND YOU.

The spirit of the Christmas of 1945 is indeed a joyous one and will long be remembered in all hearts. It makes me very happy, therefore, to wish all of my associates in the Auditing and Accounting Bureau a very Merry Christmas and a Happy and Prosperous New Year.

MARVEN L. HOWELL

Many of the boys who are out of the service are spending their first Christmas at home in a number of years. Wondering where some of them spent last Xmas we delved into the matter and learned that: Otto Peterson was with the fleet storming Lingayen Gulf on Luzon in the Philippines; Jack Maley was with the First Army in Belgium; Leonard Leighton was ports flying back to the United States from England; John Kownacki had turkey and all the trimmings aboard ship enroute to the South Pacific; Bob Logan was stationed on a lonely Pacific isle; Rizziero Cintia was manning the coastal defenses along the Maine Coast; Pete Cimbala was with the army coming up through Italy and France. To all of them this will indeed be a very happy Christmas. To them and all the boys still in the service we extend our best wishes for a most happy holiday.

Gene Palmer has returned from Jefferson Hospital, Philadelphia, to his home in Stockton where he is gradually recuperating. Paul Cramer, Harold Jemison and Dave Rodman recently paid him a visit. It is with deep regret that we report the death of Jim Martin's father at his home in Jamesburg. To Jim and his family we extend our heartfelt sympathy.

Frank Russo, formerly of the New York Navy, recently received his release from the Navy. Frank had the misfortune of having a severe attack of appendicitis while on the train enroute home. He was able to make the trip to Trenton, but it was necessary to remove the appendix immediately upon his arrival here.

Members of the Cost Department held their annual Christmas party at the Club Condado. Among those present were: Frank Dunn, Evelyn Maley, Marilyn Siddall, Earl Hankinson, Irving Schmidt, Frank Ricketti, Leonard Leighton, Ed Downs, Jim Coyle, Ed McElroy, John Kownacki, Helen Disbrow, Madeline Kiernan, Otto Peterson, Thomas Russo, Anne O'Connor, and Bill Howell.

We extend belated congratulations to Byron Beans, who, we understand, is now a grandfather. Byron's daughter recently gave birth to an eight-pound five-ounce boy.

Chatter: Rizziero (Champ) Cintia is now a civilian again, having recently received his release from the army. Dorothy Hunt, Key-punch Operator, has been confined to her home because of illness. Frank Pollock is another Cost Department member who is on the sick list. Charley Walker, formerly of Clyde Case's office, has been transferred from his base in Alaska to a ship in the Pacific.

Motor Replaces Muscles In Iron Lung Operation

During their service as members of the Auxiliary Ambulance Corps many of the Fernwood men found it necessary to manually operate the iron lung used in transporting polio victims.

One of these men, John Gleekman, a captain in this organization, conceived the idea of rigging up a small gasoline engine to use in these emergencies. Armed with advice as to the type of motor needed he got the Mercer County Preholders to approve the purchase. Soon the lung was operated by this means, and only awaited a call to service.

Shortly thereafter, on November 23rd, a call was received to transport a patient from the Trenton Municipal Hospital to the Camden Municipal Hospital, a distance of thirty-five miles. This afforded the first opportunity of putting the new source of power to actual use.

The trip was made without incident and the whole venture was hailed as a complete success by all concerned. Mr. Gleekman is to be congratulated.

Construction Comments

Fred C. Claus

NEWARK OFFICE
Ralph Perry

Former Sgt. Henry G. Meyers was recently discharged from the army and is now back with the Newark Office, Survey & Plans. Henry was in the service over three years, principally in the Southwest Pacific area.

Sympathy is extended to the family of D. Michael Loprete on the recent death of his father.

William C. Bloss will resume survey work in the near future. Bill was a staff sergeant for over three years in the African, European and Middle Eastern Campaign.

A. Desimone was obliged to take time off a couple of weeks ago to undergo an appendicitis operation. He is recovering nicely and will be back in the groove in the near future.

Edward B. Miller announces another income tax exemption with the birth of a son a couple of weeks ago. Congratulations, Eddy,—and thanks for the smokes.

William A. Kays of the Construction Office has been assigned to Survey & Plans to assist with the office work. It is because the boys here are so congenial, or was it to come in out of the cold?

Everard L. Boldt, recently discharged from service in the European area, is now attached to Survey & Plans, and is working on Route 6 Relocation.

Thomas Darbyshire is a new recruit in the Newark Office. Welcome, Tom.

Due to the pressure of field work, it was found necessary to borrow one of the Montclair Office's ablest field parties, viz., Marino, DiGiacomo, Finch, and Amento.

Steve Strait's dog finished its span of life a few days ago! The Newark office mourns. Steve won't have to divide his attention any longer, but can give it all to Mrs. Strait.

MONTCLAIR OFFICE
David Pettigrew

We are glad to report that Howard Rigby is again on the way to recovery following a severe illness. The doctor may order a complete rest before returning to the office.

Harold Weiss, our Right-of-Way expert, has at last decided to join the ranks of married men. It is rumored that the knot is to be tied sometime in early February. Well, all the boys wish you lots of luck on the biggest adventure in life.

Our former Chief, W. L. Braybrook, dropped into the office and before long a little celebration was in progress. We all were glad to see Bray looking so good. He came through the war with flying colors, as was evidenced by the red, white and green displayed on his chest. The celebration was timely, and I might say—A Good Time Was Had by All.

Dudley Demerest is back and out of service. We are looking forward to seeing him in the Highway Department soon again. Dud spent a lot of time in Italy.

Mr. and Mrs. William Kunzler are the proud parents of a baby girl. We understand everything is fine and anybody who has any old bottles, nipples, diapers, slightly used, can help the cause by sending same to Bill and his wife.

Our own Ronnie Crawford is home on terminal leave. Expect him to put his shoulder to the proverbial wheel of the Highway Dept. soon.

WOODYLYNNE OFFICE
Bill Hurley

We welcome Sam Fabian as a new member of our forces in the Woodylynn office. Sgt. Fabian graduated from Camden Catholic High School in 1939 and enlisted in the U. S. Marines in 1942. He served on Guadalcanal where he was wounded and received the Purple Heart. He also served on Okinawa and several other islands. Sam's three years and eight months in the Marines terminated

MAINTENANCE NOTES

—GENE BECKNER—

I am glad to avail myself of the facilities offered by THE HIGHWAY to extend to all of you my good wishes for the Holiday Season and the Year to come. On this first peace-time Christmas in five years, may I again express my sincere appreciation for the loyalty and support which you have given me during the difficult war years just past, and solicit your continued help in the active year which lies ahead.

I want especially to extend greetings to the men who are returning from service with the armed forces. There is little that I can add to their joy in being home with their families and loved ones for possibly the first Christmas in several years, but I am thankful that this is possible. You returning veterans have now successfully completed your war-time assignments, and the Department is depending upon you and your associates to carry on in the same successful manner with the enlarged peace-time activities which face us in the future.

Wish best wishes for a Merry Christmas and a Happy New Year, I am

Sincerely yours,

ALEX W. MUIR

More and more of our men in the service are returning to work following their honorable discharges from military service. With this issue of THE HIGHWAY we are pleased to welcome back the following: Dominick Garibaldi, of Union City; Thomas Quick, of Toms River; John Keller, formerly of Northfield but now residing in Camden; Harrison Southard, of Franklin; Jack Trimble, of Pleasantville; John Long, of Plainfield; Edwin Moysse, of Hamburg; Frank Van Syckle, of Broadway; Luther Heaton, of Goshen; Angelo Pignatelli, of Hammonton; Walter Cassimone, of Lake Hopatcong; Ralph Clymer, of Marlton; William Croce, of Jersey City; James Wallace, of Paulsboro; Alden Carretton, of Richland; R. S. Hamilton, of Washington; William Romano, of New Brunswick; Anthony Suizzo, of Long Branch; Jack Rankin, of Manasquan; and Dave Allen and Anthony Frascella, both of Trenton. Stanley Strycharz, of New Brunswick, has been released from the U. S. Navy, but has requested additional time before reporting for active duty.

A casual survey reveals about 60 men still on record as being in military service. Some of these are believed to be out of service, but no word has been received in the Trenton Office of their discharge or intention of returning to work. Should this come to the attention of anyone who was inducted into military service while working for the Maintenance Division and has been discharged but not yet communicated with the Trenton Office,

with his discharge in August 1945. He is 24, married, and is 6'-2", sort of the Leo LaJambre type. He also played basket ball for the R. C. A. Industrial League before enlisting in the Marines.

Our deepest sympathy to Ray Weatherby upon the loss of his father, Calvin S. Weatherby, age 68, a Spanish American war veteran, who passed away during the Thanksgiving holidays.

We have received a letter from the dean of the Waldyenne Institute, Morris W. Grimes, retired Resident Engineer. He expresses his thanks for sending him THE HIGHWAY each month, as he finds many interesting items in it.

Mr. Grimes has just been released from a hospital after about six weeks illness and is recovering rapidly. We wish you lots of luck, Morris, and the best of the season's greetings.

Our sincerest sympathies to Charles Benjamin Franklin, whose wife, Anna R., passed away last month. Besides her husband, Mrs. Franklin is survived by four daughters, Mrs. Kenneth Hoffman, Mrs. Donald Cline, Mrs. Daniel Murphy and Miss Mary D. Franklin, and a son, Charles B., Jr.

PLEASANTVILLE OFFICE
Leland Buzby

A recent visitor in this office was Captain Walter A. Keppler of the Army Engineer Corps, assigned to the Burma Road Engineer Corps

it is to their advantage to do so at once.

At last report he was in China vainly trying to making contact with his assigned ship. Russ, by the way, recently moved from his residence on Highland Avenue and is now installed at 825 Stuyvesant Avenue, Trenton.

Our sincere sympathy is extended to George Santino, of Riverside, who works for Foreman C. V. Dickinson, and to William E. Crawford, of South River, employed in the crew under Foreman Bert Wood, whose respective wives died on the same day—Tuesday, November 27th.

Charles (Doc) Doherty has returned to active duty in the Trenton Office after several weeks vacation following his discharge from the U. S. Army. Doc's return is most welcome, and he has lost no time getting right into the swing of things. Ken Craft and Mike Ondy are particularly glad to see him back—with special emphasis on the calculation and preparation of maintenance work orders.

Captain George J. McCann, U. S. Army, has been around the office on several occasions recently and it is good to see him back. George is now on terminal leave and expects to return to active duty soon. The Maintenance Office appreciates the fact that George was one of our most regular and interesting correspondents ever since his enlistment and we enjoyed traveling with him through the Near East and later in the European Theater of Operations by means of his many letters.

Wilbert Danley, who works for Foreman Fred Sprengel down in Monmouth County, has returned to work following an illness of several weeks.

Old Man Stork was a busy fellow during the month of November. New arrivals are reported in the families of Mr. and Mrs. Harry Current, of Newton; Mr. and Mrs. Clarence Cook, of Long Branch; and Mr. and Mrs. Randolph LaBarre, of Ocean Grove. Our hearty congratulations to the happy parents—

And while on the subject of babies, we are happy to announce that Supervisor John T. Carr, Sr. is a grandfather. A baby girl was born to the family of Jack's son and daughter-in-law, Mr. and Mrs. Robert Carr, late in November.

Ensign Richard Geller, son of Russ Geller, is having quite a time catching up with an assignment handed him by the Navy Department. Dick has been assigned as communications officer to the Destroyer Escort John E. Hutchins,

for a period of 2½ years. He related many interesting experiences and adventures and showed Chinese plans of the Burma Road. Walter will be remembered as a former employee in the Department, and for the past several years has been Assistant County Engineer of Cape May County.

William Walsley and Karl T. Collins, both C. C. M.'s in the Sea Bees, were recently mustered out of the service, and expect to return to duty in the Department in December.

Gene Gillette has been beset with a series of minor annoyances at his home in North Vineland. First, the matter of the pink panties, which so strangely disappeared, but were later recovered and returned by the police. Gene has also been greatly annoyed by rats. However, we understand he has a novel and effective method of catching them. Gene recently sojourned in New York City and vicinity. He and Mrs. Gillette were celebrating the completion of 25 years of happily married life.

George Schroeder (genial George) was a Thanksgiving visitor at Peekskill, New York.

John Beckley and son "Jack" (aged 11) went rabbit hunting at the opening of the season, and returned flushed with success. John bagged a total of nine rabbits and Jack downed three. (Isn't there a limit of six per person?)

SHALLOW PATCHING ADDS YEARS TO LIFE OF CONCRETE PAVEMENTS

Resurfacing Method Has Proven Successful Under Varying Conditions

It is sad but true that highways, like everything else, eventually wear out. It is this fact that keeps our Maintenance Division on the job 12 months a year, pouring joints, cold patching, mudjacking and performing a hundred and one associated tasks, all aimed at preserving the life of our highways.

One of the most interesting of these many operations is 'shallow patching' of concrete road slabs. This patching,

which varies in depth from "skin" patches of an inch or less, to patches of several inches in depth is actually a resurfacing operation. In New Jersey it has been used extensively wherever investigation shows that the concrete is solid below a certain depth and is damaged or 'worn' out only on the upper portion.

This rejuvenation of damaged concrete riding surfaces is an old art with the Maintenance Division, which did its first shallow patching over 18 years ago at a site along Route 4, where a burning gasoline truck had calcinated the pavement to a depth of 1½ inches. In this original operation (as well as in subsequent operations of this type) the damaged concrete was removed to insure a sound, clean surface. The perimeter of the area to be restored was hand chiseled to a vertical edge and the surface thoroughly cleaned by hand brushing with a wire brush. In this highly experimental patching of 1927, a very 'rich' mix (1:1:2) was used, with four gallons of water added for each bag of cement. Immediately following the addition of 2½ per cent of calcium chloride, this 'dry' concrete, which was hand mixed and allowed to approach its initial set before placement, was spread over the patch area and thoroughly tamped. It was then struck off to somewhat above the finished grade.

Cured in 12 Days

About fifteen minutes after the initial set, the mixture was thoroughly retamped, screeded and planed to the proper section. Curing was accomplished with damp earth and the road re-opened to traffic in 12 days. After 18 years this original shallow patch shows no marked indication of failure.

From this small beginning there have evolved a number of refinements, although it cannot be said that later developments have produced better results.

Recently the Maintenance Division did some shallow patching on Route 25, just south of Route S-41. This patching was done on pavement that was originally laid in 1926 and covered an area approximately 75 square yards. The depth of replacement on this job varied from 1½ inches to the full depth of eight inches. The mix, in this case, was 1:1½:3½ and the water content 4 and one half gallons per bag. One per cent of calcium chloride was used.

Curing in this instance was accomplished with burlap and water and unlike the original patching, curing time was reduced to four days, due to the traffic demands on this particular highway. Another difference between this and the job of 18 years ago was the use of machine mixed concrete.

Withstands Traffic

Prior to placement of patching concrete the cleaned surface of the old concrete was thoroughly wet and dusted with cement. Particular attention was paid to the placement of concrete immediately adjacent to the old edges in order to prevent any infiltration of surface water.

After being subjected to heavy traffic for a period of two months, these latest patches show no failures. This is most encouraging since this job may well be classified as an experimental one inasmuch as it was impractical to keep traffic off the highway for a long period of curing.

The work on this section was under the general supervision of Supervisor John T. Carr and the immediate direction of Foreman Willard J. Mealy. Both of these men paid tribute to the skill of those engaged in all phases of this work, and agree that skilled workmanship is one of the most important factors contributing to successful patching.

LAND and LEGAL

ED DRAKE

We welcome the opportunity afforded us through the courtesy of THE HIGHWAY to extend greetings of the season to our co-workers in the Real Estate and other division of the Highway Department. It is an especial pleasure to welcome back into the fold those of our fellow employees who have returned from the service. With renewed confidence in the future, we are looking forward to the continuation of that good old brand of teamwork in which we have always taken such pride.

J. W. AYMAR
FRED VOLLMER

We wish to announce the marriage of Miss Martha May Deuschle, of Blackwood, to Major George B. Hood, son of George R. Hood, retired Title Searcher of this Department. The wedding took place on Saturday, Nov. 24th, at the Blackwood Methodist Church. The bridegroom is on terminal leave from the Army Medical Corp.

Frank Skillman is back at his desk after being absent for some time due to an operation performed on his leg. The operation was very successful and we are glad to welcome him back.

Lem Seale has resigned from his position as Title Examiner to take a new position with Herr & Fisher, a law firm in Flemington. We hope you have great success in your new endeavor, Lem.

Kirk Schanek is back in the old groove, hale and hearty after serving Uncle Sam at many points, including several months in England where he had charge of a rest camp for aviators.

Morris McCrosson reported back for work on Dec. 1, after serving in the Navy for over three years. Mac spent most of his time at the Naval Frontier Base. He now faces a real problem as he has no place to live. Can you help him?

We sincerely hope that Sylvia Leffkowitz will soon return to work. Sylvia has been on the sick list for several months.

The office force of the Bureau of Appraisal and Negotiation spent a very enjoyable evening on Dec. 5th at Bill Hancock's gunning club at Chatsworth. A turkey dinner with all the trimmings was served in the best style.

Jack Whitehead, formerly of the Construction Division, is now serving as a Right of Way Negotiator with this Division. We hope he will have great success in his new position.

Among those on vacation at this time are Josephine O'Hara and Norm Lister.

Pat Ward reports that his son arrived in Boston on November 8th, after serving for some time in France and Germany.

Bertha J. Cunningham, wife of Joe Cunningham of Sam Bullock's office, is now working in the office of J. W. Aymar. Mrs. Cunningham was formerly employed in the Hamilton Township O. P. A. office. We welcome her as an employee of this Division.

Highway Users' Survey

(Continued from Page 1)

throughout the 24 hours. At each station were at least four interviewers.

Wherever possible a 100% sampling of traffic was made, and where this was not possible as many drivers were interviewed as conditions permitted. In no instance was the sampling of traffic less than 10% of the total number. On the highways such information was gathered as: the time of interview, type of car, number of passengers, origin, destination, home address of driver, control points passed, registration of vehicle, and purpose of trip.

In the canvass of homes information was obtained regarding: home address, number of cars owned, number at present being driven, number of persons residing at address, number 5 years of age or older, total number of trips reported from each address, number of passengers making these trips, purpose of trip (work, shopping, social, cultural, educational, recreation, etc.).

The forms containing this information were sent to the Newark Office of the Planning Bureau, where compilation of the data was started. It might be of interest to note in passing that the radio and newspaper publicity which preceded this survey was so extensive that the majority of homes visited were fully aware of the nature of the call. Nothing was taken for granted, however, and so a postal preceded each interview. This saved a great deal of valuable time which would otherwise have been spent in introduction.

This type of survey was quite new, and in this particular case was the largest of its kind carried out under the general outlines of the Public Roads Administration. It should also be understood that due to the magnitude of the undertaking its success depended a great deal upon the cooperation of many within the Highway Department. For example, although the survey was directly under supervision of Sigvald Johannesson and his assistant, Vincent Berberick, engineers of the Public Roads Administration, G. E. Marple, Charles E. Hall, F. J. Hughes and J. E. Mincher were in close contact with the work throughout.

In addition to members of the Planning Survey staff, Maurice Radus and Lawrence Kavanaugh were borrowed from the Construction Division. Together with Joseph Natalie of the home office they acted as the chief assistants in running this operation.

Mrs. Helen Tallon acted as liaison officer between the Newark Office and Trenton, and there were many times when her intimate knowledge of departmental and inter-office relations did much to unsmile difficulties that arose.

But those who had a hand in this survey were not confined to the Planning Bureau by any means. For example, R. W. Wildblood was called upon to perform the impossible on more than one occasion in his efforts to obtain special supplies and equipment, while Frank Gephart of the mimeograph room arose to the occasion and printed the 300,000 forms used in the survey.

Even the Equipment, Electrical and Maintenance Divisions entered the picture by supplying cars and special equipment, arranging required lighting, and painting such signs as were needed to direct traffic. All pitched in in a manner that will long remain as a high water mark in cooperation. Even Chief Paymaster, Clyde Case, played a part by seeing that the extra employees needed for this work received checks on time.

The scope of the survey, however, depended also upon the cooperation of many outside of the Highway Department and thanks are due Commissioner Arthur W. Magee of the Department of Motor Vehicles and members of his staff who offered the service of their Inspectors for traffic handling. In addition, several local police departments rendered valuable service, particularly the Hudson County Police under the direction of Chief Patrick J. Dolan, who performed yeoman's service in guiding motor vehicles on the Pulaski Skyway.

Last, but not least, was the help rendered by Col. Charles H. Schoeffel, Superintendent of the State Police, who approved the use of State Troopers when necessary, despite the shortage of men. The cooperation of Deputy Superintendent, Major William D. Nichols and Capt. Daniel J. Dunn who furnished police assistance at a time when the lack of it would have seriously delayed the work, will long be remembered.

Although the field work connected with this survey is completed, there remains to be done the final tabulations and interpretations before this data can be used for future highway construction. When completed, however, the final value will be far reaching to the motorists of New Jersey who have been seriously handicapped by traffic congestion beyond comparison for too many years.

THE BRIDGE BUILDER

An old man traveling a lone highway
Came at the evening cold and gray,
To a chasm deep and wide,
The old man crossed in the twilight dim,
For the sullen stream had no fear for him,
For he turned when he reached the other side
And builded a bridge to span the tide.
"Old Man," cried a fellow pilgrim near,
"You are wasting your strength by building here,
Your journey will end with the ending day
And you never again will pass this way.
You have crossed the chasm deep and wide,
Why build a bridge at eventide?"
And the builder raised his old gray head,
"Good friend, on the path I have come," he said,
"There followeth after me today
A youth whose feet will pass this way.
This stream which has been naught to me,
To that fair-haired boy may a pitfall be.
He, too, must cross in the twilight dim,
Good friend, I am building this bridge for him."

A "BEFORE AND AFTER" SHOT OF SHALLOW PATCHING ON RT. 25

